



Didsbury Engineering

Didsbury MINILIFT Hoist

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The Didsbury MINILIFT hoist is a manually operated modular hoisting kit tailored to perform a specific application on aircraft.

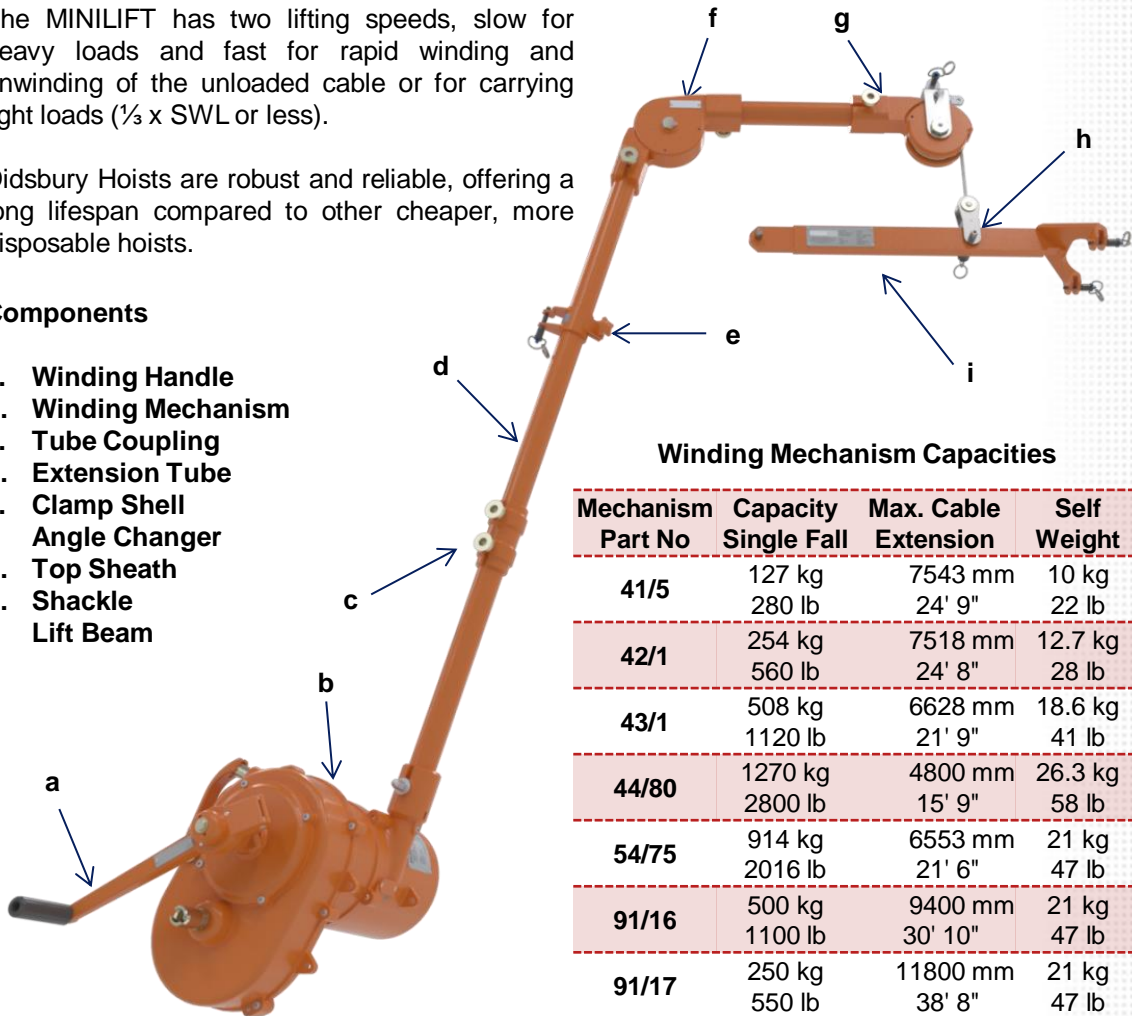
It is extensively used in confined spaces during aircraft assembly and maintenance, to install and remove APUs, engines, actuators, fairings, doors, ailerons, spoilers, various batteries, air conditioning units, electric packs and landing gears.

The MINILIFT has two lifting speeds, slow for heavy loads and fast for rapid winding and unwinding of the unloaded cable or for carrying light loads ($\frac{1}{3}$ x SWL or less).

Didsbury Hoists are robust and reliable, offering a long lifespan compared to other cheaper, more disposable hoists.

Components

- a. Winding Handle
- b. Winding Mechanism
- c. Tube Coupling
- d. Extension Tube
- e. Clamp Shell
- f. Angle Changer
- g. Top Sheath
- h. Shackle
- i. Lift Beam



Winding Mechanism Capacities

Mechanism Part No	Capacity Single Fall	Max. Cable Extension	Self Weight
41/5	127 kg 280 lb	7543 mm 24' 9"	10 kg 22 lb
42/1	254 kg 560 lb	7518 mm 24' 8"	12.7 kg 28 lb
43/1	508 kg 1120 lb	6628 mm 21' 9"	18.6 kg 41 lb
44/80	1270 kg 2800 lb	4800 mm 15' 9"	26.3 kg 58 lb
54/75	914 kg 2016 lb	6553 mm 21' 6"	21 kg 47 lb
91/16	500 kg 1100 lb	9400 mm 30' 10"	21 kg 47 lb
91/17	250 kg 550 lb	11800 mm 38' 8"	21 kg 47 lb

- A totally enclosed cable drum, preventing snagging of cable.
- 2-speed manual operation minimises operator effort and allows rapid wind in/wind-out when un-laden.
- Fast, accurate controlled descent with wind facility for final positioning.
- Simple but effective dual braking system.
- Safety in operation is ensured by a 'dead mans' brake which is normally in the 'on' position.
- Instantaneous fail safe, ensuring load never falls out of control.
- Various quick change end fittings.
- Versatile fitting in modular form.

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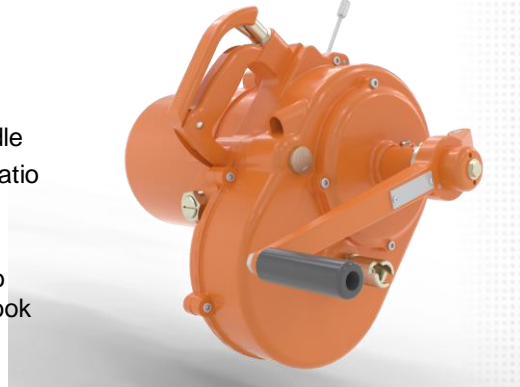
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The Didsbury Minilift hoist can be equipped with a single tube, or a combination of tubes angle changer, and top sheath to provide a simple lift.

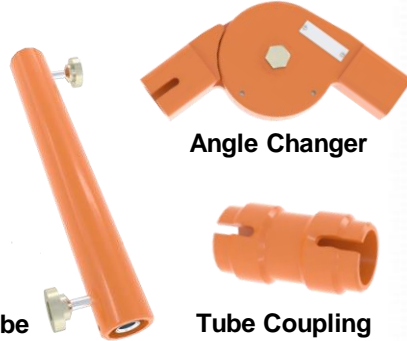
Winding Mechanism

- Manual mechanical operation
- Torque limited overload protection on winding handle
- Two winding shafts – slow or fast winding ratio options
- Winding is through a fail safe brake system
- Unique cable layering system, allowing the cable to be wound in or out, with or without a load on the hook
- Governor controlled rate of descent
- Optional Air Drive for powered lifting



Extension Tubes and Couplings

- Extension tubes are fitted between the winding mechanism and the top sheath to facilitate a convenient winding position and act as a cable guide
- Tubes are available in pre-set lengths or manufactured to suit special requirements
- Tubes can be joined by the use of a tube coupling or angle changer



Top Sheaths

Top Sheaths are used to suspend the hoist system from the support point



Lifting Attachments

Standard and special attachments can be supplied to suit any type of load



Detachable Hook



Bottom Sheath Hook



Ball End



Shackle

Details of other equipment is available upon request.

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